



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE

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www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Michael P. Murphy
Regional Director

April 6, 2016

Mr. Michael W. Roberts
Director, Operations East Region
Columbia Gas Transmission, LLC
1700 MacCorkle Avenue, S.E.
Charleston, WV 25314

Location: Goochland
Registration No.: 51002

Dear Mr. Roberts:

Attached is a renewal Title V permit to operate your facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all conditions carefully.

This approval to operate does not relieve Columbia Gas Transmission, LLC of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

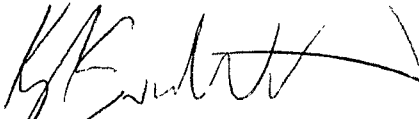
Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

Mr. David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact the regional office at (804) 527-5020.

Sincerely,

A handwritten signature in black ink, appearing to read 'K. Winter', with a long horizontal stroke extending to the right.

Kyle Ivar Winter, P. E.
Deputy Regional Director

KIW/clm/51002-07

Attachments: Permit
NSPS, Subpart GG
MACT, Subpart ZZZZ

cc: Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III
Manager/Inspector, Air Compliance



COMMONWEALTH of VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

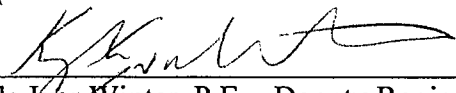
Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Columbia Gas Transmission, LLC
Facility Name: Goochland Compressor Station
Facility Location: 1436 Hermitage Road
Manakin-Sabot, Virginia

Registration Number: 51002
Permit Number: PRO51002

April 6, 2016
Effective Date

April 5, 2021
Expiration Date



Kyle Ivar Winter, P.E. - Deputy Regional Director

06 APRIL 2016
Signature Date

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Facility Information

Permittee

Columbia Gas Transmission, LLC
1700 MacCorkle Avenue SE
Charleston, WV 25314

Responsible Official

Michael W. Roberts
Director, Operations East Region
(610) 458-0118

Facility

Goochland Compressor Station
1436 Hermitage Road
Manakin-Sabot, VA 23875

Contact Person

Mili Patel
Senior Environmental Engineer
(713) 386-3692

County-Plant Identification Number: 51-075-0026

Facility Description: NAICS 486210 – Natural Gas Transmission

The facility is a natural gas pipeline compressor station. Natural gas is received via gas pipelines from an upstream compressor station, compressed using five (5) Solar Saturn T-1300 engines each rated at 1,313 hp (14.46 MMBtu/hr maximum rated heat input) at ISO conditions, and pumped into outlet pipelines for transmission to a downstream station. Other auxiliary equipment includes a natural gas-fired boiler rated at 0.84 MMBtu/hr, an 82 hp emergency generator fueled by natural gas, and storage tanks.

Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment							
16901	E01	Solar Saturn T-1300 Natural Gas Turbine Engine Modified 1990	14.46 MMBtu/hr 0.0145 MMSCF/hr	-	-	-	10/28/15
16902	E02	Solar Saturn T-1300 Natural Gas Turbine Engine Modified 1990	14.46 MMBtu/hr 0.0145 MMSCF/hr	-	-	-	10/28/15
16903	E03	Solar Saturn T-1300 Natural Gas Turbine Engine Modified 1990	14.46 MMBtu/hr 0.0145 MMSCF/hr	-	-	-	10/28/15
16904	E04	Solar Saturn T-1300 Natural Gas Turbine Engine Modified 1990	14.46 MMBtu/hr 0.0145 MMSCF/hr	-	-	-	10/28/15
16905	E05	Solar Saturn T-1300 Natural Gas Turbine Engine Modified 1990	14.46 MMBtu/hr 0.0145 MMSCF/hr	-	-	-	10/28/15
169G1	G1	Kohler 30RZ262 Natural Gas Emergency Generator Installed 1990	82 hp	-	-	-	-

*The Size/Rated capacity is at ISO conditions and is provided for informational purposes only, and is not an applicable requirement.

Fuel Burning Equipment Requirements - (emission unit ID#16901-16905)

1. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) - Limitations** – Nitrogen Oxides (NO_x), Carbon Monoxide (CO), and Volatile Organic Compound (VOC) emissions from the turbines shall be controlled by equipment design and operation. The turbines shall be provided with adequate access for inspection.
(9 VAC 5-80-110 and Condition 1 of October 28, 2015 Permit)
2. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) - Limitations** - The approved fuel for each Solar Saturn T-1300 turbine engine is natural gas. A change in the fuel may require a new or amended permit.
(9 VAC 5-80-110 and Condition 2 of October 28, 2015 Permit)
3. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) - Limitations** – Fuel utilized for the turbines shall not contain sulfur in excess of 0.01 percent by weight.
(9 VAC 5-80-110 and Condition 3 of October 28, 2015 Permit)
4. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) - Limitations** - Each Solar Saturn T-1300 turbine engine shall consume no more than 127 million cubic feet of natural gas fuel per year, calculated as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 5 of October 28, 2015 Permit)
5. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) - Limitations** - Emissions from the operation of each Solar Saturn T-1300 turbine engine shall not exceed the limits specified below:

Sulfur Dioxide		0.1 lbs/hr	0.6 tons/yr
Nitrogen Oxides (as NO ₂)	76 ppmvd@ 15% O ₂ & ISO ambient conditions	4.5 lbs/hr	19.8 tons/yr
Volatile Organic Compounds		2.3 lbs/hr	10.1 tons/yr
Carbon Monoxide		6.4 lbs/hr	28.1 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence

of the exceedance of emission limits. Compliance with these limits may be determined as stated in Condition 4.

(9 VAC 5-80-110, 40 CFR 60.332(a)(2), and Condition 7 of October 28, 2015 Permit)

6. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) - Limitations** - Visible Emissions from each Solar Saturn T-1300 turbine engine shall not exceed five (5) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110 and Condition 8 of October 28, 2015 Permit)
7. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) - Monitoring and Recordkeeping** – The permittee shall maintain records of the gas quality characteristics in a current, valid purchase contract, tariff sheet, transportation contract or representative sampling data for the gaseous fuel to indicate that the maximum total sulfur content of the fuel meets the requirements of 40 CFR 60.334 (h)(3).
(9 VAC 5-80-110, 40 CFR 60.334(h)(3) and Condition 4 of October 28, 2015 Permit)
8. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Piedmont Regional Office. These records shall include, but are not limited to:
 - a. The monthly and annual consumption of natural gas (in million cubic feet) for each Solar Saturn T-1300 turbine engine. Annual consumption shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the previous 11 months;
 - b. Hours of operation per turbine, monthly;
 - c. The tariff sheets, purchase contracts or fuel sampling data as required by Condition 7;
 - d. Records of malfunctions of equipment which would cause a violation of any part of this permit;
 - e. Operating procedures, maintenance schedules, and service records for the Solar Saturn T-1300 turbine engines; and
 - f. Results of all stack tests, visible emissions evaluations, performance evaluations, and periodic monitoring measurements.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 9 of October 28, 2015 Permit)

9. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) -Testing -**
The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the DEQ, test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110 and Condition 10 of October 28, 2015 Permit)
10. **Fuel Burning Equipment Requirements – (emission unit ID #16901-16905) -Testing -**
If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)
11. **Fuel Burning Requirements – (emission unit ID #16901-16905) – Testing –** The permittee shall measure the concentration of nitrogen oxides (NO_x) and oxygen (O₂) in the exhaust gas stream from each of the five Solar Saturn T-1300 turbine engines at least once each permit term. The first such test event under this permit term shall be performed within 180 days following the effective date of this permit. NO_x emissions shall represent the combined measured emissions of NO and NO₂, and shall be reported collectively as NO₂. NO_x emissions shall be reported in units of parts per million, dry volume, corrected to 15 percent O₂ and pounds of NO_x per hour (as NO₂). The testing shall be conducted using test methods and procedures approved in advance by the DEQ. The details of the tests are to be arranged with the Piedmont Regional Office.
(9 VAC 5-80-110)
12. **Fuel Burning Requirements – (emission unit ID #16901-16905) – Testing –** The permittee shall document all process parameters necessary to determine turbine performance with respect to the emission limits and standards of this permit during the periodic emissions testing on each turbine in accordance with Condition 11. At a minimum, the following process parameters shall be monitored and recorded for each test:
 - a. the work performed by the turbine tested, measured or reported in horsepower (hp);
 - b. the average exhaust gas volumetric flow rate per stack;
 - c. the amount of fuel consumed by the turbine during the emissions measurement;
 - d. other information necessary to determine the emission factors for the turbine; and
 - e. the actual duration of the measurement.
(9 VAC 5-80-110)
13. **Fuel Burning Requirements – (emission unit ID #16901-16905) – Testing -** As determined in accordance with Condition 11, if the measured emission rate of NO_x exceeds the emission standard for the respective pollutant, the permittee shall:

- a. Verify that the turbine is operating according to manufacturer's specifications or other predetermined site-specific acceptable operating conditions. If a turbine is not operating properly, the permittee shall take corrective action immediately to reduce emissions to or below the emission standard. The permittee shall document pollutant emission rates within one week of applying corrective action to a turbine by measuring the concentration of pollutant in the exhaust gases. The measurement shall be conducted in accordance with procedures approved in advance by the Piedmont Regional Office.
- b. If the corrective action in Condition 13a above does not rectify the emission excursion, the permittee shall conduct a compliance test for NO_x within 30 days of completing the corrective action on the turbine. The compliance testing shall be conducted in accordance with EPA Method 20, 7, or 7E (reference 40 CFR 60, Appendix A), or other procedures as approved in advance by the Piedmont Regional Office.

(9 VAC 5-80-110)

Fuel Burning Equipment Requirements - (emission unit ID #169G1)

14. **Fuel Burning Equipment Requirements - (emission unit ID#169G1) - Fuel** – The emergency generator is designed to use natural gas. A change in fuel may require a new or amended permit.

(9 VAC 5-80-110)

15. **Fuel Burning Equipment Requirements - (emission unit ID#169G1) – Hours of Operation** - The emergency generator shall not be operated other than for emergency operation, maintenance, and testing, emergency demand response, and operation in non-emergency situations for more than 50 hours per year or it will not be considered an emergency generator and must meet the requirements for non-emergency engines. The emergency generator shall be equipped with a non-resettable hour meter.

(9 VAC 5-80-110, 40 CFR 63.6640(f), and 40 CFR 63.6625(f))

16. **Fuel Burning Equipment Requirements - (emission unit ID#169G1) - Limitations** – As stated in the National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE MACT, Subpart ZZZZ), the facility shall, as a minimum:

- a. Change oil and filter every 500 hours of operation or annually, whichever comes first, for the engine;
- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

(9 VAC 5-80-110, 40 CFR 63.6625(h) and Table 2d(4) of 40 CFR 63 Subpart ZZZZ)

17. **Fuel Burning Equipment Requirements - (emission unit ID#169G1) – Maintenance Plan** - The permittee shall operate and maintain the emergency generator according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide for the maintenance and operation of the generator in a manner consistent with good air pollution control practices for minimizing emissions. Operators shall be trained on proper operation and maintenance of the generator.
(9 VAC 5-80-110 and 40 CFR 63.6625(e))
18. **Fuel Burning Equipment Requirements - (emission unit ID#169G1) – Visible Emissions** - Visible emissions from the Kohler emergency generator shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity.
(9 VAC 5-50-80 and 9 VAC 5-80-110)
19. **Fuel Burning Equipment Requirements - (emission unit ID#169G1) - Monitoring –** Compliance with the operational requirements in Condition 15 for the emergency generator shall be to keep a log of any non-emergency operating hours on a monthly basis.
(9 VAC 5-80-110)
20. **Fuel Burning Equipment Requirements - (emission unit ID#169G1) - Recordkeeping -** The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Piedmont Regional Office. These records shall include, but are not limited to:
 - a. Annual hours of operation of the generator (169G1) including hours spent for non-emergency operation, calculated monthly as the sum of each consecutive 12 month period;
 - b. A log of the results of the monthly visible emissions observations and any corrective action taken;
 - c. The occurrence and duration of each malfunction of the generator;
 - d. All required maintenance performed on the generator to demonstrate the unit was operated and maintained in accordance with the maintenance plan, including the required work practices in Condition 16;
 - e. A log of actions taken during periods of malfunction to minimize emissions, including any corrective actions;

- f. Copies of the initial notifications for MACT ZZZZ; and
- g. Results of all visible emissions checks, visible emissions evaluations, and stack test results.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and 40 CFR 63.6655)

21. **Fuel Burning Equipment Requirements - (emission unit ID#169G1) - Testing** - If testing of the emergency generator is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

Facility Wide Conditions

22. **Facility-wide Conditions – Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to turbines:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance;
- b. Maintain an inventory of spare parts;
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum; and
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-80-110 and Condition 13 of October 28, 2015 Permit)

Insignificant Emission Units

23. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation (9 VAC__)	Pollutant(s) Emitted (9 VAC 5-80-720B)	Rated Capacity (9 VAC 5-80-720C)
BLR1	Natural Gas-Fired Boiler	5-80-720 C.2.	TSP,PM-10, PM-2.5,NOx,SO ₂ ,VOC	0.84 MMBtu/hr
A04	Water Mixture Tank (Wastewater)	5-80-720 B.2.	VOC	275 gallons
A05	Pipeline Liquids Tank	5-80-720 B.2.	VOC, benzene,ethylbenzene, hexane, toluene, xylenes	1000 gallons
A06	Lube Oil Tank	5-80-720 C.4.	VOC	550 gallons
A07	Compressor Oil Tank	5-80-720 B.2.	VOC	300 gallons
HTR 1	Indirect-Fired Water Bath Heater	5-80-720 C.2.	TSP, PM-10, PM-2.5, NOx, SO ₂ ,CO, VOC	0.087 MMBtu/hr
FUG	Facility	5-80-720 B.2.	VOC	N/A

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Permit Shield & Inapplicable Requirements

24. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60, Subpart GG 60.334	New Source Performance Standards Standards of Performance for Stationary Gas Turbines (monitoring of fuel nitrogen content)	The nitrogen monitoring requirement of this section is waived in accordance with a letter dated 05/27/98 from EPA Region III.
40 CFR 60, Subpart Kb 60.110b(a)	New Source Performance Standards Standards of Performance for Volatile Organic Liquid Storage Vessels	The volatile organic liquid storage vessels have a capacity less than 75 m ³ (19,813 gallons) .
40 CFR 60, Subpart IIII	New Source Performance Standards Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	The emergency generator (Ref. 169G1) is not a compression ignition engine
40 CFR 60, Subpart JJJJ	New Source Performance Standards Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	The emergency generator (Ref. 169G1) was manufactured prior to and has not been modified after June 12, 2006
40 CFR 60, Subpart KKKK	New Source Performance Standards Standards of Performance for Stationary Combustion Turbines	The turbines (Ref. 16901- 16905) were manufactured prior to and have not been modified after February 18, 2005.
40 CFR 63, Subpart HH	National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities	The facility is in the Natural Gas Transmission & Storage source category.
40 CFR 63, Subpart HHH	National Emission Standards for Hazardous Air Pollutants from Oil and Gas Transmission and Storage Facilities	The facility is not a major source of Hazardous Air Pollutants
40 CFR 63, Subpart YYYY	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	The facility is not a major source of Hazardous Air Pollutants
40 CFR 63, Subpart JJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	The boiler (BLR1) is natural gas-fired and is not subject to the standards.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for

any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

General Conditions

25. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the Administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)
26. **General Conditions - Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
27. **General Conditions - Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
28. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
29. **General Conditions - Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
30. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted

pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

31. **General Conditions - Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
32. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of such analyses; and
 - f. The operating conditions existing at the time of sampling or measurement.
(9 VAC 5-80-110 F)
33. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
34. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:

- i. Exceedance of emissions limitations or operational restrictions;
 - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

35. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
- a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
 - b. The identification of each term or condition of the permit that is the basis of the certification;
 - c. The compliance status;
 - d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
 - e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
 - f. Such other facts as the permit may require to determine the compliance status of the source; and

- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9 VAC 5-80-110 K.5)

36. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Piedmont Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 34 of this permit. (9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)
37. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Piedmont Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Piedmont Regional Office. (9 VAC 5-20-180 C)
38. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit. (9 VAC 5-80-110 G.1)
39. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application. (9 VAC 5-80-110 G.2)

40. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)
41. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-190 and 9 VAC 5-80-260)
42. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)
43. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
44. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)
45. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9 VAC 5-80-2310 through 9 VAC 5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9 VAC 5-80-2340, adjusted annually by the change in the Consumer Price Index.
(9 VAC 5-80-110 H, 9 VAC 5-80-340 C and 9 VAC 5-80-2340 B)

46. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
 - c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
 - d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
 - e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

47. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E and 9 VAC 5-40-20 E)

48. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

49. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
 - d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

50. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:
- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
 - c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

51. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

52. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
53. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
54. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
55. **General Conditions - Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements stated in Condition 56 are met.
(9 VAC 5-80-250)
56. **General Conditions - Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification

does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

(9 VAC 5-80-250)

57. **General Conditions - Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
(9 VAC 5-80-250)
58. **General Conditions - Malfunction as an Affirmative Defense** - The provisions of Conditions 55 – 57 are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)
59. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)
60. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)
61. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)
62. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following:

Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

63. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)
64. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)
65. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.
- (9 VAC 5-80-110 I)